

SPECIFICATIONS:

STEPS PER REVOLUTION: 200	ROTOR INERTIA: 260 G-CM ² (3.68E-03 oz-in-sec ²) NOM
STEP ANGLE: 1.8°	DETENT TORQUE: 0.040 N-m (5.66 oz-in) MIN
STEP TO STEP ACCURACY: ±.09 DEGREE [1] , [2]	INSULATION CLASS: B
RADIAL PLAY: 0.02 mm MAX W/.5KG RADIAL LOAD	WEIGHT: 0.6 KG (1.32 LB)
TEMP. RISE: 80 °C MAX. [8]	OPERATING TEMP. RANGE: -20 TO +50 °C
RELATIVE HUMIDITY RANGE: 15 TO 99 %	STORAGE TEMP. RANGE: -30 TO +70 °C

3 7 1 1

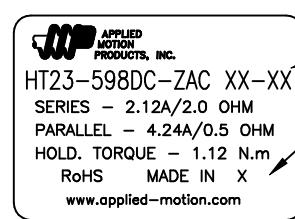
SPECIFICATION		RESISTANCE PER PHASE OHM $\pm 10\%$	INDUCTANCE PER PHASE mH $\pm 20\%$	RATED CURRENT Amp	HOLDING TORQUE N-m Min	HOLDING TORQUE oz-in Min
CONNECTION	SERIES	2.0	5.7	2.12	1.12	158
CONNECTION	PARALLEL	0.5	1.4	4.24	1.12	158
CONNECTION	UNI-POLAR	1.0	1.4	3.00	0.85	120

NOTES, UNLESS OTHERWISE SPECIFIED:

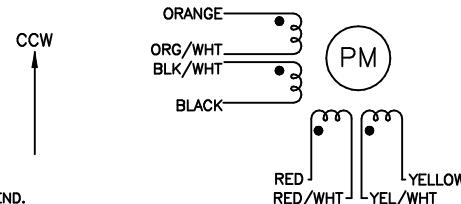
- 1. MEASUREMENTS MADE AT RATED CURRENT IN BOTH PHASES.
- 2. BETWEEN ANY TWO ADJACENT FULL STEP POSITIONS.
- 3. MEASUREMENTS MADE AT LEAD ENDS.
- 4. HIPOT 500 VAC, 60 Hz FOR ONE MINUTE.
- 5. LEADS: 8, 22 AWG, 7 STRAND MIN., UL AND CSA APPROVED, 105°C RATED SHIELDED CABLE 666-2126.
- 6. INSULATION RESISTANCE: 100 MEGOHMS MIN AT 500 VDC.
- 7. MEASURED USING AN A.C. INDUCTANCE BRIDGE, AT 1KHz AT LEAD ENDS.
- 8. AS MEASURED BY THE CHANGE IN RESISTANCE METHOD, WITH RATED CURRENT APPLIED TO 2 PHASES; WITH MOTOR AT REST.
- 9. HIGH TORQUE MOTOR DESIGN, MICROSTEP LAMINATION, INTENDED FOR USE WITH 80VDC DRIVES WHEN WINDINGS CONNECTED IN PARALLEL AND WITH 160VDC DRIVES WHEN WINDINGS CONNECTED IN SERIES.
- 10. THIS MOTOR TO BE MANUFACTURED IN COMPLIANCE WITH EU DIRECTIVE "ROHS 2002/95/EC".
- 11. MOTOR LABEL TO INCLUDE "ROHS" COMPLIANT, 'MADE IN (COUNTRY OF ORIGIN)' AND DATE CODE.
- 12. CABLE GLAND TO BE NICKEL-PLATED BRASS, ASI P/N 3012215 OR EQUIVALENT.
- 13. ENCODER 970-1001 INSTALLED PER AMP ASSEMBLY PRACTICES.
ENCODER CABLE 3004-195-10 INCLUDED WITH MOTOR.
- 14. OTHER TAPPED HOLES MAY BE PRESENT ON REAR OF MOTOR.
- 15. ASSEMBLE PER AMP SPEC 960-0084.

REVISIONS

LABEL DETAIL



WIRING DIAGRAM



BI-POLAR, FULL STEP, 2 PHASE ON				
STEP	ORANGE & BLK/WHT	BLACK & ORG/WHT	RED & YEL/WHT	YELLOW & RED/WHT
0	+	-	+	-
1	-	+	+	-
2	-	+	-	+
3	+	-	-	+
4	+	-	+	-

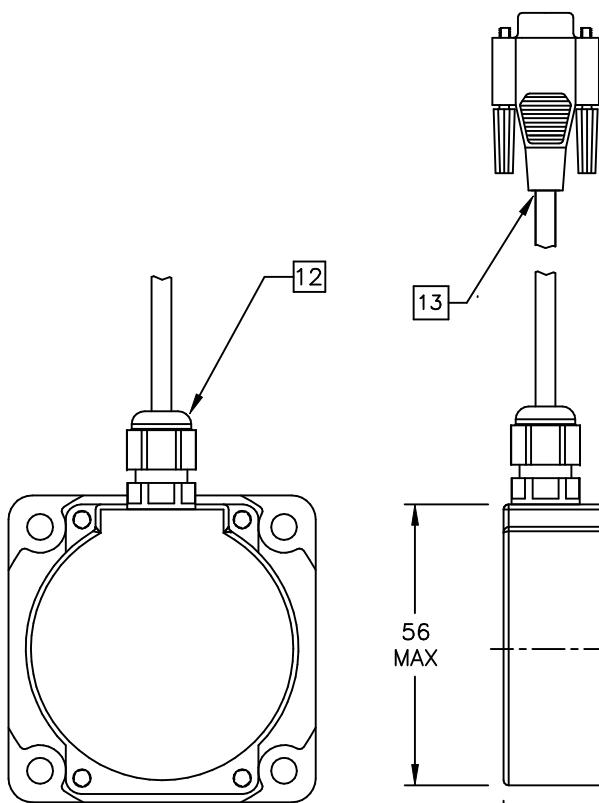
SWITCHING SEQUENCE FOR ROTATION FACING MOUNTING END

CONTRACT NO.

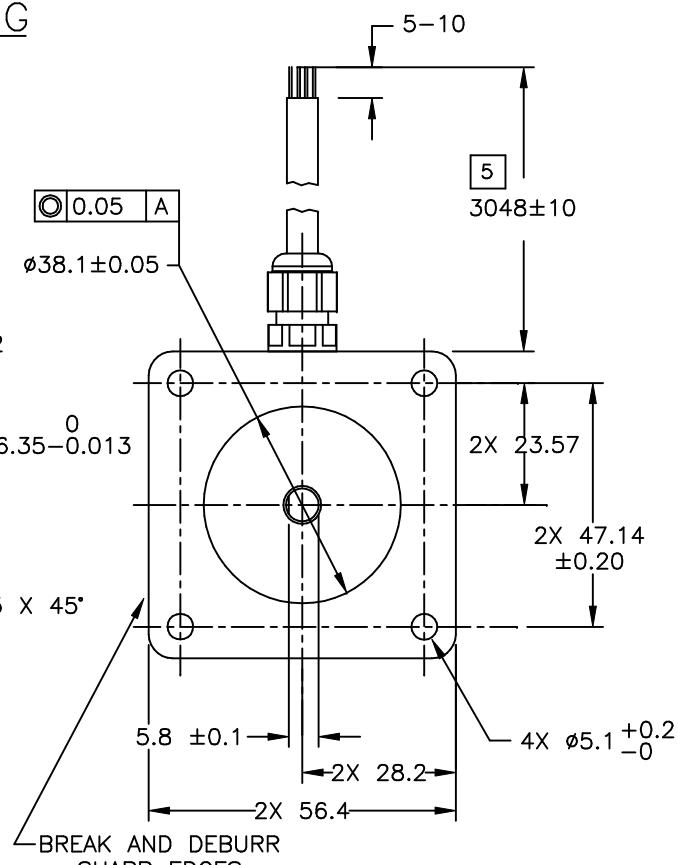
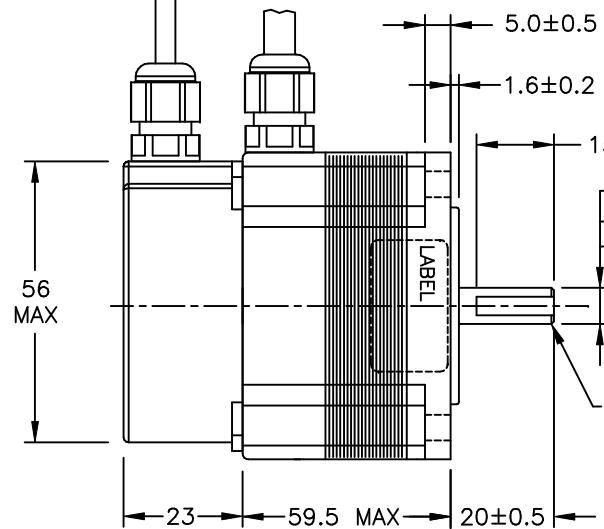
The logo for Applied Motion Products, Inc. It features a stylized, blocky letter 'A' composed of several thick, black, diagonal lines. To the right of the 'A', the company name is written in a bold, black, sans-serif font, with 'APPLIED' on the first line, 'MOTION' on the second line, and 'PRODUCTS, INC.' on the third line.

STEP MOTOR OUTLINE

CHECKED		COMPUTER DATA BASE DRAWING			DWG NO. HT23-598DC-ZAC	REV A
APPROVED						
APPROVED		SCALE: NONE		SHEET 1 OF 2		

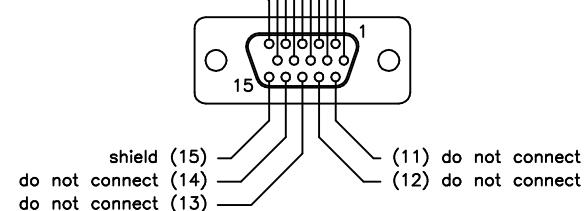


MOTOR DRAWING



CONNECTION TABLE		CONN (REF)
LEAD COLOR	SIGNAL	PIN
BLUE	CH A	1
BLUE/WHITE	CH A-	2
YELLOW	CH B	3
YELL/WHITE	CH B-	4
ORANGE	INDEX	5
ORN/WHITE	INDEX-	6
-	N/A	9
-	N/A	10
-	N/A	13
-	N/A	14
-	N/A	11
-	N/A	12
RED	+Vcc	7
BLK	GND	8
DRAIN	SHIELD	15

13 ENCODER CABLE 3004-195-10 INCLUDED.
 encoder B+ (3) (8) GND
 do not connect (9) (2) encoder A-
 encoder B- (4) (7) +5VDC 200mA
 do not connect (10) (1) encoder A+
 encoder Z+ (5) (6) encoder Z-



TOLERANCES		THIRD ANGLE PROJECTION		APPROVALS		DATE	
DECIMALS: MM (INCH)							
X.XXX = \pm (.005)							
X.XX = \pm 0.13 (.010)							
X.X = \pm 0.25 (.020)							
ANGLES:							
MACH. = \pm 5°							
CHAM. = \pm 5°							
COMPUTER DATA		APPROVED					
BASE DRAWING							

 APPLIED
MOTION
PRODUCTS, INC.

STEP MOTOR OUTLINE

B DWG NO. HT23-598DC-ZAC REV A
 SCALE: NONE SHEET 2 OF 2